# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 6.1.3 |
| Input Device: | Carousel | Date: | 01/17/2017 10:10 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 07/29/2016 03:45 PM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

Bead Product: CST Setup Beads, Part #: 910723
Lot ID: 25720, Expiration Date: 06/30/2017
Bead Lot Information: Available

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 125186 | 0 | 1.47 | 125097 | 1.44 |
| Blue | F | SSC | 125000 | 122929 | -2 | 2.51 | 123354 | 2.30 |
| Blue | E | FITC | 22946 | 22296 | -3 | 2.29 | 985 | 9.67 |
| Blue | D | PE | 28770 | 28098 | -3 | 1.90 | 1009 | 9.25 |
| Blue | B | PerCP-Cy5-5 | 51099 | 50193 | -2 | 3.14 | 1437 | 15.98 |
| Blue | A | PE-Cy7 | 42312 | 41524 | -2 | 4.69 | 645 | 33.75 |
| Red | C | APC | 52169 | 51802 | -1 | 2.81 | 3000 | 9.21 |
| Red | A | APC-Cy7 | 56705 | 55784 | -2 | 2.99 | 1154 | 11.30 |
| Violet | B | V450 | 14708 | 13931 | -6 | 5.34 | 666 | 9.47 |
| Violet | A | V500 | 58608 | 56442 | -4 | 5.23 | 2495 | 7.05 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 19833 | 4.32 | 599 | 1 | N/A | N/A | Pass |
| Blue | F | SSC | 61166 | 1.49 | 528 | 10 | N/A | N/A | Pass |
| Blue | E | FITC | 112 | 37.93 | 534 | 3 | 0.0240 | 237 | Pass |
| Blue | D | PE | 221 | 27.20 | 530 | 4 | 0.1780 | 224 | Pass |
| Blue | B | PerCP-Cy5-5 | 227 | 42.85 | 626 | 4 | 0.0115 | 122 | Pass |
| Blue | A | PE-Cy7 | 72 | 110.52 | 674 | 3 | 0.0130 | 12 | Pass |
| Red | C | APC | 350 | 27.04 | 593 | 3 | 0.0217 | 89 | Pass |
| Red | A | APC-Cy7 | 126 | 40.07 | 578 | 2 | 0.0055 | 1493 | Pass |
| Violet | B | V450 | 81 | 41.93 | 466 | 7 | 0.0512 | 2111 | Pass |
| Violet | A | V500 | 182 | 23.93 | 495 | 7 | 0.0183 | 1362 | Pass |

## Specifications

PMTV Delta from baseline: 50 (BD)
Violet Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Blue Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Red Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Spec. (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.98 - 71.98 | N/A | N/A | -31.64 | -31.07 | 0.82 |
| Blue | 20.35 | 16.27 - 24.41 | 1.24 | 0.99 - 1.49 | 0.00 | 0.00 | 1.31 |
| Red | 16.71 | 13.27 - 19.91 | N/A | N/A | 31.25 | 31.79 | 1.14 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.88

## Threshold

Threshold (FSC): 12673

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.70
Spec.: 3.80 - 4.00

Comments